

Ag. Waste Application and Excavated Ponds  
Hughes County, South Dakota

(The information in this table indicates the dominant soil condition but does not eliminate the need for onsite investigation. The numbers in the value columns range from 0.01 to 1.00. The larger the value, the greater the limitation.)

Map symbol and soil name	Pct. of map unit	Application of manure and food- processing waste		Aquifer-fed excavated ponds	
		Rating class and limiting features	Value	Rating class and limiting features	Value
AgA: Agar-----	90	Not limited		Very limited Deep to water	1.00
AgB: Agar-----	90	Not limited		Very limited Deep to water	1.00
AkB: Agar-----	50	Not limited		Very limited Deep to water	1.00
Eakin-----	40	Very limited Restricted permeability	1.00	Very limited Deep to water	1.00
As: Inavale-----	75	Very limited Filtering capacity Leaching limitation Droughty	1.00 0.45 0.08	Very limited Deep to water	1.00
Au: Nimbro-----	49	Very limited Flooding	1.00	Somewhat limited Deep to water Slow refill Cutbanks cave	0.90 0.30 0.10
Wendte-----	49	Very limited Restricted permeability Flooding Runoff limitation	1.00 1.00 0.40	Very limited Slow refill Deep to water Cutbanks cave	1.00 0.90 0.10
Aw: Meckling-----	45	Very limited Filtering capacity Depth to saturated zone	1.00 0.43	Very limited Cutbanks cave Deep to water	1.00 0.25

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		Rating class and limiting features	Value	Rating class and limiting features	Value
Norway-----	45	Very limited Depth to saturated zone Filtering capacity Flooding Runoff limitation Droughty	1.00  1.00 0.60 0.40 0.02	Very limited Cutbanks cave	1.00
BeE: Betts-----	80	Very limited Slope Restricted permeability	1.00 0.30	Very limited Deep to water	1.00
Bo: Bon-----	95	Somewhat limited Flooding	0.60	Very limited Cutbanks cave Deep to water	1.00 0.81
CaA: Canning-----	90	Very limited Filtering capacity	1.00	Very limited Deep to water	1.00
CaB: Canning-----	95	Very limited Filtering capacity	1.00	Very limited Deep to water	1.00
CdA: Cavo-----	40	Very limited Restricted permeability Sodium content Salinity Runoff limitation	1.00 1.00 0.50 0.40	Very limited Deep to water	1.00
Demky-----	30	Very limited Restricted permeability Sodium content Runoff limitation	1.00 1.00 0.40	Very limited Slow refill  Deep to water Salty water Cutbanks cave	1.00  0.90 0.50 0.10

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		Rating class and limiting features	Value	Rating class and limiting features	Value
ChC: Chantier-----	90	Very limited Restricted permeability Depth to bedrock Droughty Salinity Runoff limitation	1.00 1.00 1.00 0.50 0.40	Very limited Deep to water	1.00
Cu: Orthents, Loamy-----	60	Not rated		Not rated	
Orthents, Shaly-----	40	Not rated		Not rated	
DeA: Degrey-----	50	Very limited Restricted permeability Sodium content Runoff limitation Salinity	1.00 1.00 0.40 0.01	Very limited Deep to water	1.00
Walke-----	30	Very limited Sodium content Restricted permeability	1.00 0.89	Very limited Deep to water	1.00
DkA: Demky-----	50	Very limited Restricted permeability Sodium content Runoff limitation	1.00 1.00 0.40	Very limited Slow refill  Deep to water Salty water Cutbanks cave	1.00  0.90 0.50 0.10
Cavo-----	30	Very limited Restricted permeability Sodium content Salinity Runoff limitation	1.00 1.00 0.50 0.40	Very limited Deep to water	1.00
Do: Dorna-----	90	Very limited Restricted permeability	1.00	Very limited Deep to water	1.00

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		Rating class and limiting features	Value	Rating class and limiting features	Value
Dr: Dorna-----	90	Very limited Restricted permeability	1.00	Very limited Deep to water	1.00
Du: Durrstein-----	69	Very limited Restricted permeability	1.00	Very limited Slow refill	1.00
		Depth to saturated zone	1.00	Salty water	0.50
		Sodium content	1.00	Cutbanks cave	0.10
		Flooding	0.60		
		Salinity	0.50		
Egas-----	30	Very limited Restricted permeability	1.00	Very limited Slow refill	1.00
		Depth to saturated zone	1.00	Salty water	0.78
		Salinity	0.78	Cutbanks cave	0.10
		Flooding	0.60		
		Runoff limitation	0.40		
ErA: Eakin-----	50	Very limited Restricted permeability	1.00	Very limited Deep to water	1.00
Raber-----	30	Somewhat limited Restricted permeability	0.89	Very limited Deep to water	1.00
ErB: Eakin-----	55	Very limited Restricted permeability	1.00	Very limited Deep to water	1.00
Raber-----	35	Somewhat limited Restricted permeability	0.89	Very limited Deep to water	1.00
ErC: Eakin-----	50	Very limited Restricted permeability	1.00	Very limited Deep to water	1.00
Raber-----	40	Somewhat limited Restricted permeability	0.89	Very limited Deep to water	1.00

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		Rating class and limiting features	Value	Rating class and limiting features	Value
Fd: Orthents, Loamy-----	90	Somewhat limited Restricted permeability	0.30	Very limited Deep to water	1.00
GeE: Gettys-----	80	Very limited Slope Restricted permeability	1.00 0.89	Very limited Deep to water	1.00
GhC: Glenham-----	60	Somewhat limited Restricted permeability	0.30	Very limited Deep to water	1.00
Highmore-----	20	Not limited		Very limited Deep to water	1.00
HeA: Highmore-----	90	Not limited		Very limited Deep to water	1.00
HgA: Highmore-----	50	Not limited		Very limited Deep to water	1.00
Degrey-----	25	Very limited Restricted permeability Sodium content Runoff limitation Salinity	1.00 1.00 0.40 0.01	Very limited Deep to water	1.00
HgB: Highmore-----	60	Not limited		Very limited Deep to water	1.00
Degrey-----	20	Very limited Restricted permeability Sodium content Runoff limitation Salinity	1.00 1.00 0.40 0.01	Very limited Deep to water	1.00
HkA: Highmore-----	65	Not limited		Very limited Deep to water	1.00

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		Rating class and limiting features	Value	Rating class and limiting features	Value
Eakin-----	20	Very limited Restricted permeability	1.00	Very limited Deep to water	1.00
HkB: Highmore-----	50	Not limited		Very limited Deep to water	1.00
Eakin-----	40	Very limited Restricted permeability	1.00	Very limited Deep to water	1.00
HLB: Highmore-----	50	Not limited		Very limited Deep to water	1.00
Glenham-----	30	Somewhat limited Restricted permeability	0.30	Very limited Deep to water	1.00
HmA: Highmore-----	70	Not limited		Very limited Deep to water	1.00
Walke-----	20	Very limited Sodium content Restricted permeability	1.00 0.89	Very limited Deep to water	1.00
Hn: Hoven-----	99	Very limited Restricted permeability	1.00	Somewhat limited Salty water	0.50
		Depth to saturated zone	1.00	Slow refill	0.30
		Ponding	1.00	Cutbanks cave	0.10
		Sodium content	1.00		
		Salinity	0.50		
Ho: Hoven-----	55	Very limited Restricted permeability	1.00	Somewhat limited Salty water	0.50
		Depth to saturated zone	1.00	Slow refill	0.30
		Ponding	1.00	Cutbanks cave	0.10
		Sodium content	1.00		
		Salinity	0.50		

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Map symbol and soil name	Pct. of map unit	Application of manure and food- processing waste		Aquifer-fed excavated ponds	
		Rating class and limiting features	Value	Rating class and limiting features	Value
Onita-----	30	Somewhat limited Restricted permeability	0.30	Very limited Deep to water	1.00
HuB: Hurley-----	80	Very limited Sodium content Droughty Salinity Depth to bedrock Runoff limitation	1.00 1.00 0.50 0.42 0.40	Very limited Deep to water	1.00
JbD: Java-----	60	Somewhat limited Slope Restricted permeability	0.63 0.30	Very limited Deep to water	1.00
Betts-----	30	Somewhat limited Slope Restricted permeability	0.63 0.30	Very limited Deep to water	1.00
JgC: Java-----	50	Somewhat limited Restricted permeability	0.30	Very limited Deep to water	1.00
Glenham-----	35	Somewhat limited Restricted permeability	0.30	Very limited Deep to water	1.00
LoA: Lowry-----	90	Not limited		Very limited Deep to water	1.00
LoB: Lowry-----	85	Not limited		Very limited Deep to water	1.00
LoC: Lowry-----	90	Not limited		Very limited Deep to water	1.00
LuB: Lowry-----	60	Not limited		Very limited Deep to water	1.00
Urban Land-----	30	Not rated		Not rated	

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		Rating class and limiting features	Value	Rating class and limiting features	Value
LuC: Lowry-----	55	Not limited		Very limited Deep to water	1.00
Urban Land-----	40	Not rated		Not rated	
Ma: Macken-----	80	Very limited Restricted permeability Depth to saturated zone Ponding Runoff limitation	1.00 1.00 1.00 0.40	Very limited Slow refill Cutbanks cave	1.00 0.10
Hoven-----	20	Very limited Restricted permeability Depth to saturated zone Ponding Sodium content Salinity	1.00 1.00 1.00 1.00 0.50	Somewhat limited Salty water Slow refill Cutbanks cave	0.50 0.30 0.10
Mar: Aquolls-----	95	Very limited Ponding Depth to saturated zone Runoff limitation	1.00 1.00 0.40	Somewhat limited Cutbanks cave	0.10
MbA: Millboro-----	85	Very limited Restricted permeability Runoff limitation	1.00 0.40	Very limited Deep to water	1.00
MoA: Mosher-----	70	Very limited Restricted permeability Sodium content Salinity Runoff limitation	1.00 1.00 0.50 0.40	Very limited Cutbanks cave Deep to water Salty water Slow refill	1.00 0.81 0.50 0.43
Mu: Munjor-----	75	Very limited Filtering capacity	1.00	Very limited Deep to water	1.00



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		Rating class and limiting features	Value	Rating class and limiting features	Value
OaC: Oahe-----	55	Very limited Filtering capacity	1.00	Very limited Deep to water	1.00
Orton-----	30	Very limited Filtering capacity Droughty	1.00 0.01	Very limited Deep to water	1.00
OcB: Oko-----	85	Very limited Restricted permeability Runoff limitation Salinity	1.00 0.40 0.01	Very limited Deep to water	1.00
OcC: Oko-----	85	Very limited Restricted permeability Runoff limitation Salinity	1.00 0.40 0.01	Very limited Deep to water	1.00
OdC: Oko-----	60	Very limited Restricted permeability Runoff limitation Salinity	1.00 0.40 0.01	Very limited Deep to water	1.00
Jerauld-----	30	Very limited Restricted permeability Sodium content Salinity Runoff limitation	1.00 1.00 0.50 0.40	Very limited Deep to water	1.00
OnA: Onita-----	90	Somewhat limited Restricted permeability	0.30	Very limited Deep to water	1.00
OoA: Onita-----	60	Somewhat limited Restricted permeability	0.30	Very limited Deep to water	1.00

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		Rating class and limiting features	Value	Rating class and limiting features	Value
Hoven-----	25	Very limited Restricted permeability Depth to saturated zone Ponding Sodium content Salinity	1.00  1.00  1.00 1.00 0.50	Somewhat limited Salty water  Slow refill  Cutbanks cave	0.50  0.30  0.10
OpB: Opal-----	90	Very limited Restricted permeability Droughty Depth to bedrock Runoff limitation Sodium content	1.00  1.00 0.42 0.40 0.02	Very limited Deep to water	1.00
OpC: Opal-----	85	Very limited Restricted permeability Droughty Depth to bedrock Runoff limitation Sodium content	1.00  1.00 0.42 0.40 0.02	Very limited Deep to water	1.00
OrD: Opal-----	50	Very limited Restricted permeability Droughty Slope Depth to bedrock Runoff limitation	1.00  1.00 0.63 0.42 0.40	Very limited Deep to water	1.00
Lakoma-----	40	Very limited Restricted permeability Droughty Slope Depth to bedrock Runoff limitation	1.00  1.00 0.63 0.42 0.40	Very limited Deep to water	1.00
PeD: Peno-----	50	Somewhat limited Restricted permeability Slope Salinity	0.89  0.63 0.01	Very limited Deep to water	1.00

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		Rating class and limiting features	Value	Rating class and limiting features	Value
Gettys-----	35	Somewhat limited Restricted permeability Slope	0.89 0.63	Very limited Deep to water	1.00
PrnD: Peno-----	50	Somewhat limited Restricted permeability Slope Salinity	0.89 0.63 0.01	Very limited Deep to water	1.00
Bullcreek-----	20	Very limited Restricted permeability Sodium content Salinity Runoff limitation	1.00 1.00 0.50 0.40	Very limited Deep to water	1.00
PrA: Promise-----	90	Very limited Restricted permeability Runoff limitation Sodium content	1.00 0.40 0.02	Very limited Deep to water	1.00
PrB: Promise-----	90	Very limited Restricted permeability Runoff limitation Sodium content	1.00 0.40 0.02	Very limited Deep to water	1.00
PsA: Promise-----	68	Very limited Restricted permeability Runoff limitation Sodium content	1.00 0.40 0.02	Very limited Deep to water	1.00
Mosher-----	30	Very limited Restricted permeability Sodium content Salinity Runoff limitation	1.00 1.00 0.50 0.40	Very limited Cutbanks cave Deep to water Salty water Slow refill	1.00 0.81 0.50 0.43
RaA: Raber-----	45	Somewhat limited Restricted permeability	0.89	Very limited Deep to water	1.00

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Map symbol and soil name	Pct. of map unit	Application of manure and food- processing waste		Aquifer-fed excavated ponds	
		Rating class and limiting features	Value	Rating class and limiting features	Value
Cavo-----	40	Very limited Restricted permeability Sodium content Salinity Runoff limitation	1.00 1.00 0.50 0.40	Very limited Deep to water	1.00
RaB: Raber-----	60	Somewhat limited Restricted permeability	0.89	Very limited Deep to water	1.00
Cavo-----	30	Very limited Restricted permeability Sodium content Salinity Runoff limitation	1.00 1.00 0.50 0.40	Very limited Deep to water	1.00
RbC: Raber-----	50	Somewhat limited Restricted permeability	0.89	Very limited Deep to water	1.00
Peno-----	35	Somewhat limited Restricted permeability Salinity	0.89 0.01	Very limited Deep to water	1.00
Eakin-----	5	Very limited Restricted permeability	1.00	Very limited Deep to water	1.00
RdC: Oko-----	40	Very limited Restricted permeability Slope Salinity	1.00 0.04 0.01	Very limited Deep to water	1.00
Raber-----	40	Somewhat limited Restricted permeability Slope	0.89 0.04	Very limited Deep to water	1.00
ReA: Ree-----	85	Not limited		Very limited Deep to water	1.00

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Map symbol and soil name	Pct. of map unit	Application of manure and food- processing waste		Aquifer-fed excavated ponds	
		Rating class and limiting features	Value	Rating class and limiting features	Value
ReB: Ree-----	85	Not limited		Very limited Deep to water	1.00
RmA: Ree-----	60	Not limited		Very limited Deep to water	1.00
Mosher-----	25	Very limited Restricted permeability	1.00	Very limited Cutbanks cave	1.00
		Sodium content	1.00	Deep to water	0.81
		Salinity	0.50	Salty water	0.50
		Runoff limitation	0.40	Slow refill	0.43
Ro: Gettys-----	30	Very limited Slope	1.00	Very limited Deep to water	1.00
		Restricted permeability	0.89		
Lakoma-----	30	Very limited Slope	1.00	Very limited Deep to water	1.00
		Restricted permeability	1.00		
		Droughty	1.00		
		Depth to bedrock	0.42		
		Runoff limitation	0.40		
Rock Outcrop, Soft--	20	Very limited Slope	1.00	Very limited Deep to water	1.00
		Depth to bedrock	1.00		
		Droughty	1.00		
		Runoff limitation	0.40		
		Low adsorption	0.04		
SaE: Sansarc-----	60	Very limited Slope	1.00	Very limited Deep to water	1.00
		Restricted permeability	1.00		
		Depth to bedrock	1.00		
		Droughty	1.00		
		Runoff limitation	0.40		
Gettys-----	30	Very limited Slope	1.00	Very limited Deep to water	1.00
		Restricted permeability	0.89		

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Map symbol and soil name	Pct. of map unit	Application of manure and food- processing waste		Aquifer-fed excavated ponds	
		Rating class and limiting features	Value	Rating class and limiting features	Value
ScE: Lakoma-----	40	Very limited Slope Restricted permeability Droughty Depth to bedrock Runoff limitation	1.00 1.00 1.00 0.42 0.40	Very limited Deep to water	1.00
Sansarc-----	40	Very limited Slope Restricted permeability Depth to bedrock Droughty Runoff limitation	1.00 1.00 1.00 1.00 0.40	Very limited Deep to water	1.00
Sd: Sansarc-----	55	Very limited Slope Restricted permeability Depth to bedrock Droughty Runoff limitation	1.00 1.00 1.00 1.00 0.40	Very limited Deep to water	1.00
Rock Outcrop, Soft--	30	Not rated		Not rated	
Sf: Schamber-----	65	Very limited Slope Filtering capacity Droughty Leaching limitation	1.00 1.00 1.00 0.45	Very limited Deep to water	1.00
Orton-----	25	Very limited Slope Filtering capacity Droughty	1.00 1.00 0.01	Very limited Deep to water	1.00

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Map symbol and soil name	Pct. of map unit	Application of manure and food- processing waste		Aquifer-fed excavated ponds	
		Rating class and limiting features	Value	Rating class and limiting features	Value
Sh: Rock Outcrop, Soft--	85	Not rated		Not rated	
SuA: Sully-----	90	Not limited		Very limited Deep to water	1.00
SuC: Sully-----	90	Not limited		Very limited Deep to water	1.00
SuD: Sully-----	85	Somewhat limited Slope	0.63	Very limited Deep to water	1.00
SuE: Sully-----	80	Very limited Slope	1.00	Very limited Deep to water	1.00
SwB: Bullcreek-----	80	Very limited Restricted permeability Sodium content Salinity Runoff limitation	1.00 1.00 0.50 0.40	Very limited Deep to water	1.00
Sx: Bullcreek-----	68	Very limited Restricted permeability Sodium content Salinity Runoff limitation	1.00 1.00 0.50 0.40	Very limited Deep to water	1.00
Slickspots, Dry-----	30	Not rated		Not rated	

Ag. Waste Application and Excavated Ponds -- continued  
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Map symbol and soil name	Pct. of map unit				
w: Water (less Than 40 Acres)-----	100	Not rated		Not rated	



